

AGADZHANYAN, N.A., mayor med.sluzhby, kand.med.nauk; YAKAR, M.I., podpolkovnik kovnik med.sluzhby, kand.med.nauk; MANSHOV; A.R., podpolkovnik med.sluzhby; TSIVIIASHVILI, A.S., mayor med.sluzhby

Decompression tissue emphysema and methods of its prevention. Voen.
med.zhur. no.12:45-48 D '58.
(DECOMPRESSION SICKNESS, prev. & control,
decompression tissue emphysema in aviators (Rus))

(EMPHYSEMA, prev. & control,
same)

VAKAR, M.I., kand.med.nauk, podpolkovnik meditsinskoy sluzhby; AGADZHANYAN, M.A., kand.med.nauk, mayor meditsinskoy sluzhby; CHERNYAKOV, I.N., kand.med.nauk, kupitan neditsinskoy sluzhby

Changes in blood oxygen at high altitudes and their relation to to the effectiveness of a space suit. Voen.med.zhur. no.5:29-32 (MIRA 12:8)

My '59.

(OXYGEN, in blood, at high altitudes, eff. of effectiveness of space suit (Rus))

(AIMITUDE, eff. on blood oxygen, eff. of effectiveness of space suit (Rus))

AGADEHANYAN, N.A., mayor med.sluzhby; VAKAR, N.I., podpolkovnik med.sluzhby;
TSIVILASHVILI, A.S., mayor med.sluzhby; MALKIN, V.B.; CHRRNAKOV,
I.N., kapitan med.sluzhby

Reaction of the human cardiovascular system during hypoxia. Voen.—
med.zhur. no.2:65-69 J '60. (MIRA 13:5)
(ANOIMMIA physiology)
(CAHDIOVASCULAR SYSTEM physiol.)

新日本新疆和北京全国中国共享的支持,1914年2月14日至20日本世界中央电影中国共享的企业。1917年19日,1917年19日,1917年19日,1917年1

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32557 S/177/61/000/006/002/003 D298/D305

17.2!50

AUTHORS: Agadzhanyan, N.A., Major, Medical Corps, Candidate of

Medical Sciences, Vakar, M.I., Colonel, Medical Corps, Candidate of Medical Sciences, Smirnov, V.A., Major, Medical Corps, dical Corps, and Chernyakov, I.N., Major, Medical Corps,

Candidate of Medical Sciences

TITLE:

Change in pulmonary ventilation with excess pressure res

spiration at high altitudes

PERIODICAL: Voyenno-meditsinskiy zhurnal, no. 6, 1961, 58-61

TEXT: The authors developed a special device and method for determining pulmonary ventilation in a pressure chamber. A.I. Shaposhnikov, a Lieutenant Colonel in the Engineering Branch, assisted the authors in devising the method. The device (see figure) consists of a mask (1) giving an airtight seal with the face, a gas meter (6) fitted in an airtight case, tubes connecting the mask with the meter, and valves for controlling the direction of the oxygen flow in the system. During

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Change in pulmonary ...

excess pressure respiration oxygen passes from the oxygen apparatus (12) along the tube (10) through the valve (8) and into the space within the helmet. When the subject inhales, it then passes through the valve (2) under the mask and into the lungs. From the lungs the air enters the gas meter through the tubes (3 and 4), and from the meter it passes through the tube (7) and valve (9) into the atmosphere. With this arrangment no exhaled air escapes from the system without passing through the meter and no oxygen passes inadvertently through the same meter. Oxygen which enters the space within the helmet during the exhalation phase is released into the atmosphere through valves (1L) and (9), bypassing the meter. Valves (5) and (11) close during inhalation and prevent air from the tubes and gas meter from entering the space within the helmet. The positioning of the gas meter before the exhalation valve (9) ensures that the pressure in the lungs and the pressure in the gas meter are practically equal. This enables the absolute values of pulmonary ventilation to be determined immediately without prior calculations reducing the pressure of the air passing through the gas meter to the pressure in the lungs. Control experiments showed that under normal

Card 2/8/

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Change in pulmonary ...

conditions the pulmonary ventilation readings recorded by this method coincided with the readings of commonly-accepted methods. Experiments with excess pressure respiration were conducted with 6 healthy men aged 20-23. Apart from pulmonary ventilation, the rate and amplitude of the respiratory movements, the chest circumference and the pressure exerted on the body by a high-altitude compensating suit were recorded. The tests were conducted at normal pressure ("on the ground") and at an increased pressure of 105 mm Hg ("at high altitude"). The results of the tests are given in tabular form and show that in persons who took well to excess pressure respiration pulmonary ventilation "on the ground" and "at high altitude" was maintained at close to the original level. In almost all cases, however, the volume of respiration under excess pressure was reduced by 50-60% of the original level. With such a reduction, adequate pulmonary ventilation could only be obtained by an increase in the rate of respiration, a phenomenon which was observed in the tests (an increase of 3-13 respirations a minute). These findings disagree with those of A.G. Kuznetsov (1960), who noted a considerable increase in pulmonary ventilation under excess pressure respiration,

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Change in pulmonary "00

mainly by an increase in the depth of the respiratory movements and, consequently, an increase in the volume of respiration. These results, however, were obtained in respiration at an excess pressure of 15-25 mm Hg and without the use of compensating clothing. With increased pressure, the material of the compensating suit became harder. This led to an increased pressure on the body, especially in the thoracic and abdominal regions, during the inhalation phase, and a reduction of suit pressure during exhalation, whereas for free respiration the opposite should be the case. The pressure difference between the respiration phases sometimes reached 40-60 mm Hg or more. Under normal conditions chest expansion during respiration was 0.6-1.2 cm, whereas under excess pressure respiration it comprised a mere 0.2-0.4 cm. This reduction in the amplitude of the respiratory movements naturally led to a reduction in the volume of respiration. The authors conclude that, in addition to their basic function of compensating for increased pressure in the lungs, high. altitude suits also give rise to factors that complicate respiration and blood circulation. The authors observations took no account of the

Card 4/54

AGADZHANYAN, N.A. (Moskva); VAKAH, M.I. (Moskva); SMIRNOV, V.A. (Moskva); CHERNYAKOV, I.N. (Moskva); SHAPOSHNIKOV, A.I. (Moskva)

Method of measuring pulmonary ventilation in respiration under increased pressure at high altitudes. Fiziol. zhur. 47 no.6: 778-780 Je '61. (MITA 15:1) (RESPIRATION) (ALTITUDE, INFLUENCE OF)

AND THE PROPERTY OF THE PROPER

S/865/62/002/000/029/042 D405/D301

AUTHORS:

Alifanov, V.N., Vakar, M.I., Yeremin, A.V. and

Ivenov, A.Ye.

TITLE:

Effect of resistance breathing on respiration under

excess pressure

SOURCE:

Problemy kosmicheskoy biologii. v. 2. Ed. by N. Sisakyan and V. Yazdovskiy. Moscow. 1zd-vo AN SSSR, 1962,

287-289

TEXT: This article was presented at the 10th European Congress on Aviation and Space Medicine, Paris, 26-30 September, 1961. The effect of changes in intrapulmonary pressure, due to pressure breathing, on the respiratory mechanism is investigated. 50 experiments were conducted on seven subjects (young healthy males aged 23-33), under normal atmospheric pressure and also in a pressure chamber with a rarefied atmosphere corresponding to an altitude of 20 km. The oxygen apparatus used in the experiments had a special device which permitted reduction of the excess pressure in the in-

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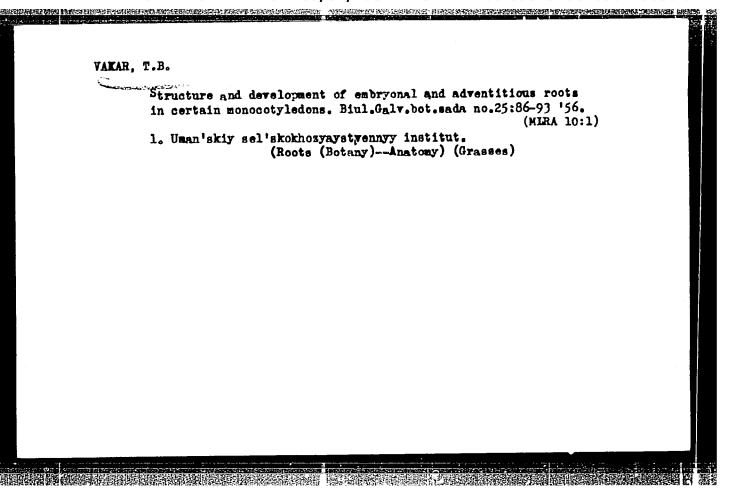
Effect of resistance ...

halation phase as compared to that in the exhalation phase. Conclusions: If the variations in intrapulmonary pressure exceeded 100 mm water column, then the physiological functions of the organism underwent a general disturbance. The effect of intrapulmonary pressure fluctuations on the organism is the stronger the larger these fluctuations and the more rarefied the embient atmosphere; the respiratory function is the one to be mostly affected. The replacement of the oxygen mask by a hermetic helmet (i.e. an increase in dead space) caused more serious disturbances in the respiratory mechanism if the pressure-drop in the inhaling phase exceeded 50-100 mm water column. Intrapulmonary pressure fluctuations of 200-300 mm water column were sometimes accompanied by a total disturbance of the respiratory mechanism. The oxygen concentration of the blood decreases. The bioelectric activity of the respiratory muscles is a reliable indicator of respiration distress due to the use of breathing apparatus.

Card 2/2

THE REPORT OF THE PROPERTY OF
L 11307-67 EWT(1) SCTB DD/GD ACC NR: AT6036511 SOURCE CODE: UR/0000/66/000/000/0085/0065
AUTHOR: Vakar, M. I.; Chernyakov, N. I.; Maksimov, I. V.; Glazkova, V. A.; Azhevskiy, P. 1a.
ORG: none
TITLE: Moisture loss in the human organism at high altitudes [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966]
SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 85-86
TOPIC TAGS: high altitude physiology, alpine acclimatization, hypoxia, human physiology, perspiration
ABSTRACT: Moisture loss in man during exposures of several hours to high altitudes (30,000 m and above) during pressure oxygen breathing was studied.
The subjects wore altitude compensating suits which did not prevent contact between the skin and the high vacuum and did not impede evaporation of moisture from the surface of the body and from underclothing. Water loss was calculated by weighing the subjects before and after the experiment. Decrease in temperature of the skin and underclothing was recorded with a thermocouple and served as an indirect index of evaporation intensity.
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ACC NR: AT6036511	
The subjects were at rest in some experiments and performed physical work of medium difficulty in others.	
It was found that during prolonged resting exposure to high altitudes moisture loss increases by 1.5 to 2 times (from 40-50g/hr to 70-120g/hr). This increase is due to increased evaporation from the skin in a rarefied atmosphere. Increased perspiration due to emotional tension was also sometimes seen.	
Step test exercises caused still greater water loss (120 to 225 g/hr). Increased moisture loss at high altitudes was primarily due to the wearing of altitude equipment which hindered movement, as well as to rarefied atmosphere and emotional tension.	
Skin temperature dynamics confirmed the intensification of evaporation from the body and underclothing at high altitudes. [W.A. No. 22; ATD Report 66-	116]
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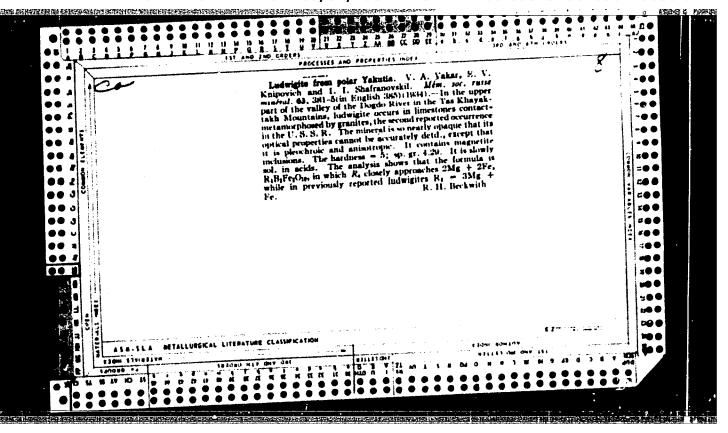


VOLKOV, V.A.; VAKAR, T.K.

Conference on the mechanization of welding operations in agricultural machinery construction. Svar. proizv. no.4246 Ap '65. (MIRA 18:6)

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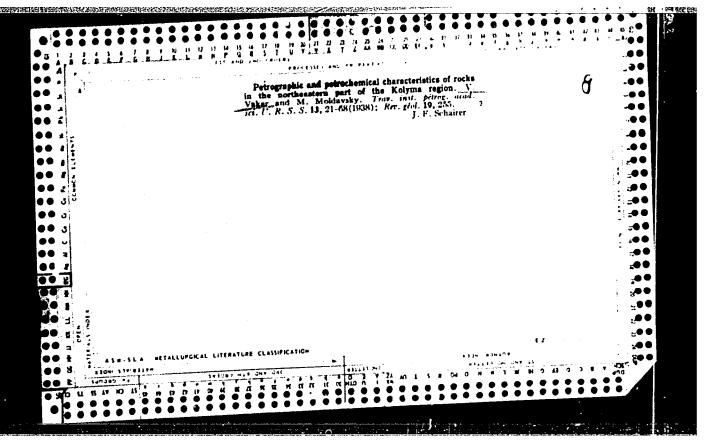
1. Zamestitel' predsedatelya oblastnogo pravleniya Nauchnotekhnicheskogo obshchestva mashinostroitel'noy promyshlennosti (for Volkov). 2. Glavnyy svarshchik Chernomorskogo soveta narodnogo khozyaystva (for Vakar).

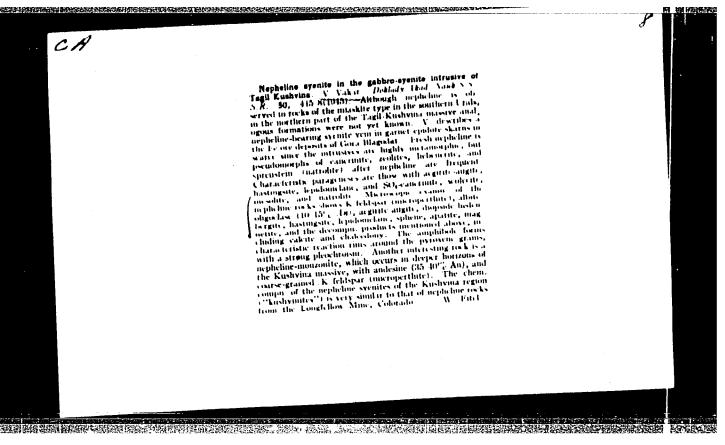


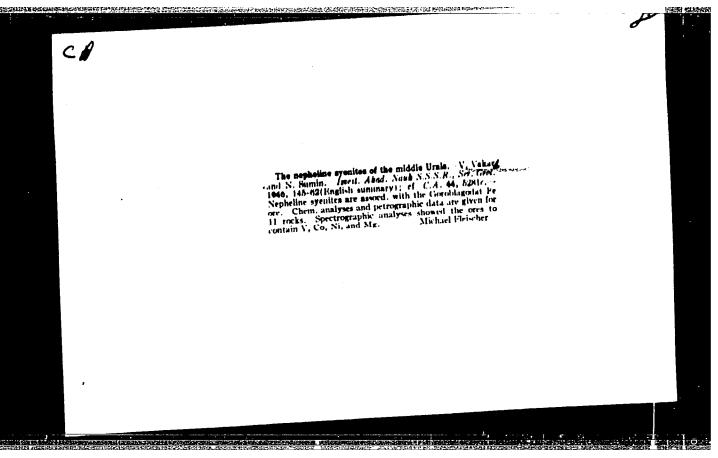
VAKAR, V. A.

Perspektivy razvitiia bezdorozhnogo transporta v Arktike. Prospects of development of transport over impassible roads 7. (Problemy Arktiki, 1937, no. 2, DLC: G600.P7

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,
Reference Department, Washington, 1952, Unclassified.







- 1. SUNIN, N. G., VAKAR, V. A.
- 2. USSR (600)
- 4. Ore Deposits Goroblagodatskaya Deposits
- 7. Geological report with a calculation of the ore reserves of the southern bed of the Goroblagodatskaya iron ore deposits. (Abstract.) Izv.Glav.upr.geol.fon. no. 2, 1947

9. Monthly List of Russian Accessions. Library of Congress. March 1953. Unclassified.

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1.	VAKAR,	V.
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- 2. USSR (600)
- 4. Ural Mountains Iron Ores
- 7. Materials on iron and manganese mineralization in the circumpolar Urals. (Abstract.) Izv, Glav.upr.geol.fon. no.2, 1947

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

VAKAR, V.A.

Brief history of the development of tectonic movements in the northern part of Central Siberia. Trudy Mauch.-issl. inst. geol.
Arkt. 89:274-293 156. (MIRA 11:1)

(Siberia--Geology, Structural)

TKACHENKO, B.V.; RABKIN, M.I.; DEMOKIDOV, K.K.; VAKAR, V.A.; GROZDILOV, A.L.; BUTAKOVA, Ye.L.; STRRIKOV, S.A.

Geology of the northern part of the Central Siberian Pateau.
Trudy Mauch, -issl. inst. geol. Arkt. 81:133-242 *57. (MIRA 11:5)

1. Sotrudniki instituta geologii Arktiki. (Central Siberian Plateau-Geology)

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MARKOV, F.G.; RAVICH, M.G.; VAKAR, V.A.

Geology of the Taymyr Peninsula. Trudy Mauch.-issl. inst. geol. Arkt. 81:313-387 157. (MIRA 11:5)

1. Kkspeditsii Nauchno-issledovatel'skogo instituta geologii Arktiki i tresta "Arktikrazvedka" Gorno-geologicheskogo upravleniya Glavsevmorputi.

(Taymyr Peninsula-Geology)

RAVICH, M.G.; VAKAR, V.A.; GRAMBERG, I.S.

Concerning A.M.Daminova's article "More on the age of the crystalline schist complex in the Taymir Peninsula" (Sovetskaia geologiia," no.6, 1958). Inform.biul.NIIQA no.11:77-80 (MIRA 12:6)

'58. (Taymir Peninsula--Schists)

VAKAR, V.A.; VORONOV, P.S.; DEMENITSKAYA, R.M.

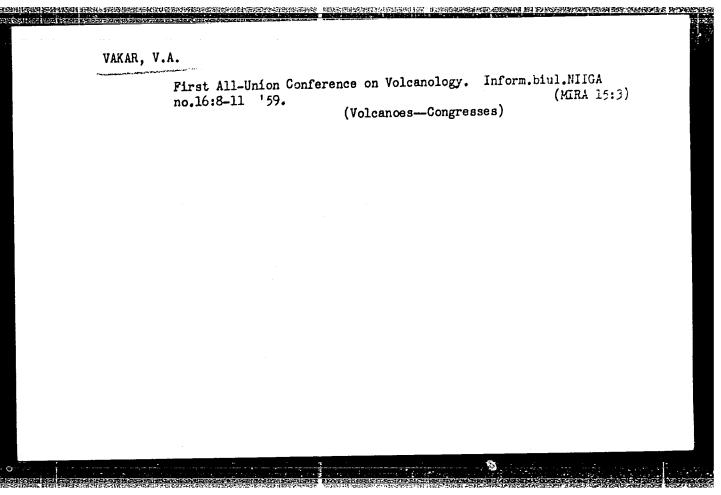
Regional faults in the northern part of central Siberia. Trudy
MIIOA 67:87-93 '58. (MIRA 12:10)

(Russia, Northern-Faults (Geology))

RAVICH, M.G.; VAKAR, V.A.; GRAMBERG, I.S.

Concerning A.M. Daminova's article "Age of the crystalline schist complex in the Taymyr Peninsula" ("Sovetskaia Geologiia," no.58, 1957). Sov. geol. 1 no.3:130-132 Mr 158. (MIRA 11:5)

l. Mauchno-issledovatel'skiy institut geologii Arktiki. (Taymyr Peninsula---Schists)

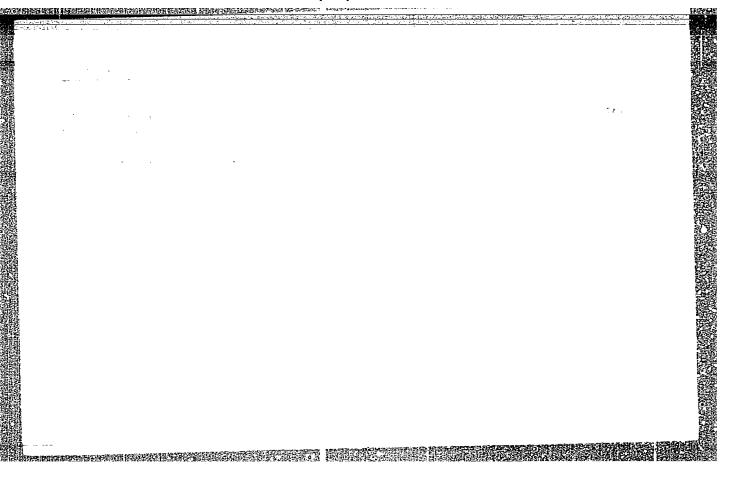


VAKAR, V.A.; LEBELEV, A.F.

Tectonics and volcanism of Siberian trap formations. Trudy MIGA 114:119-125 '60. (MIRA 13:11)

(Siberia-Geology, Structural)

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74	Evolution of the Taymyr geosyncline. N '61.				Sov.geol. 4 no.11:109-120 (MIRA 14:11)			
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VAKARCHUK, A.; KONSTANTINOV, I.; TROFIMOVA, L., red.

[Rural builders of the Altai contemplate new fronties; work practices of the "Altai Territory Construction Administration"] Sel'skie stroiteli Altaia namechaiut novye rubezhi; opyt upravleniia "Altaits-linstroi." Moskva, Trest "Orgsovkhozstroi," 1963. 13 p. (MIRA 17:8)

1. Russia (1917- R.S.F.S.R.) Ministerstvo stroitel'stva. Glavnoye upravleniye po delam sel'skogo i kolkhoznogo stroitel'stva. 2. Glavnyy inzhener upravleniya "Altaytselinstroy" (for Vakarchuk). 3. Nachal'nik otdela tresta "Orgsovkhozstroy" (for Konstantinov).

VAKARGHUK, B. G., Cond Phys-Nath Sci - "Differential Coccettic properties of certain curves and suffeces in the Lobechevskiy space." Kiev, 1959. 9 pp (lin of Higher Education UKSSR. Kiev Order of Lenin Poytech Inst), 150 copies (KL, 27-59, 113)

YASTREBOV, Yu.N., kand.fiziko-matematicheskikh nauk, dotsent; VAXARCHUK, B.
S., inzh.

Some analytic indications of the distribution of straight lines in a Lobachevskii space. Trudy LIIVT no.26:274-280 '59. (MIRA 14:9) (Spaces, Generalized)

S/041/60/012/001/003/007 C111/C222

/6.5600 AUTHOR:

Vakarchuk, B.S.

TITLE: On the Spherical Mapping of Curves and Surfaces in the Lobachevskiy Space

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1960, Vol. 12, No. 1, pp 87 - 93

TEXT: Let a surface in the Lobachevskiy space be given by

(1)
$$x^k = x^k(u^1, u^2)$$
 $(k = 0, 1, 2, 3);$ $\sum_{k=1}^{3} x^k - x^0 = -1$

Let ξ^{1} (i = 0,1,2,3) be the direction cosines of the normal of (1). The parameter equations of the normal in (u^{1}, u^{2}) read

(2)
$$x^{i} = x^{i}(u^{1}, u^{2}) \operatorname{ch} \frac{v}{r} + \xi^{i}(u^{1}, u^{2}) \operatorname{sh} \frac{v}{r}$$
 (i = 0,1,2,3).

Then the spherical image of (1) on a sphere with the radius t_0 and the center in 0 is given by Card 1/3

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On the Spherical Mapping of Curves and Surfaces in the Lobachevskiy Space

(10) $\begin{cases} x^k = \frac{x^k \pm \xi^k}{x^0 \pm \xi^0} \text{ sh } \frac{t_0}{r} & (k = 1, 2, 3) \\ x^0 = \text{ch } \frac{t_0}{r} & . \end{cases}$ If do' is the line element of (10), do' = $\mathcal{L}_{ij}^{du^i du^j}$; \mathcal{E}_{ij}^{ij} , \mathcal{E}_{ij}^{ij} are the coefficients of the first, second and third fundamental forms of (1), K is the relative complete curvature of (1), H is the mean curvature of (1) then

 $\alpha_{ij} = \frac{\left(\frac{1}{r^2} - K_0\right)g_{ij} - \left(H \pm \frac{2}{r}\right)b_{ij}}{\left(r^0 + E^0\right)^2} \sin^2 \frac{t_0}{r}$

From (14) it follows 1) for a spherical mapping the curvature lines of the surface go over into an orthogonal net of the sphere; 2) on every surface the umbilical points are conformity points of the spherical image; Card 2/3

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On the Spherical Mapping of Curves and Surfaces in the Lobachevskiy Space

3) the net of the asymptotic lines of a minimal surface goes over into a rhombic net on the sphere etc.

Then the author gives the equations of the tangent and binormal indicatrices of a curve of the Lobachevskiy space for a spherical mapping (with the aid of the formulas of Bianchi being analogous to the formulas of Frenet).

There are 2 references: 1 Soviet and 1 Italian.

SUBMITTED: March 13, 1959

Card 3/3

Spherical indicatrices of curves in properties. Izv. vys. ucheb. zav.;		Milia 16:3/
(Curves)	(Geometry, Non-	euclidean)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858410008-6"

VAKANCHUK, B.S. (Dnepropetrovsk)

The Darboux tensor and second-order surfaces in lobachevskii space.

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15-8050

AUTHORS: Ostroverkhov, V. G., Vakarchuk, I. S., Sinyavskiy, V. G.

TITLE: Kinetics of polymerization of 2-methyl-5-vinyl pyridine and its copolymerization with styrene

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 8, 1961, 1197-1202

TEXT: It was the aim of the present work to determine the constants of polymerization rates of 2-methyl-5-vinyl pyridine (MVP) in benzene, in the presence of benzoyl peroxide (BP) or azoisobutyric acid dinitrile (ABN) as an initiator. To determine the relative activity constants \mathbf{r}_1 and \mathbf{r}_2 of the monomers, the authors also studied thermal block polymerization of MVP without initiator, and copolymerization of MVP and styrene in the presence of ABN. The reagents MVP and styrene were purified by double distillation and, after that, either used immediately or stored in a Dewar vessel containing dry ice (maximum storage time 24 hr). Benzene was purified by $\mathbf{H}_2\mathbf{SO}_4$ and then distilled by $\mathbf{N}\mathbf{a}$; BP and ABN were

Card 1/6

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Kinetics of polymerization of ...

twice recrystallized from absolute methanol while petroleum ether was purified by boiling with Na and subsequent distillation (boiling point 50 - 70°C). Polymerization of MVP in solution: The benzene solution of MVP and the initiator were filled into ice-cooled ampoules which were fused in No atmosphere, heated in a thermostat, and then cooled in ice. The content of ampoules was introduced into a flask by means of acetone, and the polymers were precipitated by adding the 2.5-3-fold volume of petroleum ether. When using ABN as initiator, polymerization occurred at 60, 70, and 80°C. The concentration of MVP was 1.7 - 1.9 mole/1, that of the initiator $\sim 7 \cdot 10^{-3}$ mole/1. For 70° C, the authors graphically found the equation $dx/dt = k(a - x)^n c^m$, where a = initial concentration of monomer, c = concentration of initiator, <math>m = 0.5, n = 1.5. Solution of the equation yielded: $k = \langle [a^{1-n} - (a-x)^{1-n}] \cdot mk_B \rangle / \langle (1-n)c_0[1-exp(-k_B^{mt})] \rangle$. Here, k denotes the decomposition constant of the initiator at a given temperature To. Calculation of k according to V. van Hook, A. Tobolsky Card 2/6

26295 S/190/61/003/008/008/019 B110/B218

Kinetics of polymerization of ...

(Ref. 4: J. Amer. Chem. Soc., 80, 779, 1958) led to the following results: for 60° C: $3.2 \cdot 10^{-2}$, for 70° C: 0.125, and for 80° C: 0.446. For k $(1 \cdot \text{mole}^{-1} \cdot \text{min}^{-1})$, the authors found: $k_{60} = 3.93 \cdot 10^{-3} \pm 8 \cdot 10^{-5}$; $k_{70} = 1.15 \cdot 10^{-2} + 8 \cdot 10^{-5}$; $k_{80} = 2.58 \cdot 10^{-2} \pm 1.1 \cdot 10^{-3}$, $E_{act} = 22 \text{ kcal/mole}$. In the presence of BP: m = 0.5; n = 1.3, k_B for 60° C = $9.94 \cdot 10^{-3}$, for 80° C = 0.13, k_{60}° C (in $1^{0.8} \cdot \text{mole}^{-0.8} \cdot \text{min}^{-1}$) = $3.28 \cdot 10^{-3} \pm 1.7 \cdot 10^{-4}$; k_{80}° C = $1.66 \cdot 10^{-2} \pm 2.7 \cdot 10^{-4}$, $E_{act} = 18.9 \text{ kcal/mole}$. Thermal polymerization of MVP without initiator was carried out at 80, 100, and 120° C. For 120° C, the authors found: $dx/dt = k_1[M]$, where [M] denotes the monomer concentration in parts of the initial concentration. k_1 (determined graphically) amounted to $6.5 \cdot 10^{-4} \text{min}^{-1}$. Results obtained at 80 and 100° C are very inaccurate due to the low yield in polymers. The polymers of MVP Card 3/6

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26295 \$/190/61/003/008/008/019 B110/B218

Kinetics of polymerization of ...

are unsoluble and not capable of swelling in H_2O , ether, and petroleum ether, soluble in alcohols, dioxane, acetic acid, mineral acids, in the initial monomer, and in chloroform, poorly soluble in aromatic hydrocarbons, acetone, and CCl₄. Boiling point was between 200 and 235°C; softening occurred at about $165-170^{\circ}C$. The viscosity in propanol at $25^{\circ}C$ showed a minimum in the concentration range of 0.1 - 0.2 g/100 ml. 0.4% solutions exhibited the well-known dependence of viscosity on polymerization temperature and concentration. Copolymerization of MVP and styrene was carried out at $60^{\circ}C$, in the presence of 0.16 - 0.2% by weight of ABN. The N content of copolymers was determined according to Dumas. Table 2 shows the results. The copolymerization constants were graphically determined from the equation: $F(f-1)/f = r_1F^2/f - r_2$ (f, F = molar ratios of monomers in the copolymer and in the initial mixture) according to R. Fineman and S. Ross (Ref. 8: J. Polymer Sci., 5, 259, 1950): $r_1(MVP) = 0.88 + 0.2$; r_2 (styrene) = 1.19 \pm 0.12. The copolymers Card 4/6

Kinetics of polymerization of ...

26295 \$/190/61/003/008/008/019 B110/B218

melt at 210 - 240°C. At 160 - 17°C, they shrink. They are readily soluble in acetone, dioxane, chlorform, and acetic acid. In methanol, only copolymers with a higher molicontent of MVP than 0.2 - 0.3 are readily soluble. There are 4 fig. es, 2 tables, and 8 references: 3 Soviet and 5 non-Soviet.

ASSOCIATION: Institut khimii polinerov i monomerov AN USSR (Institute of Polyner and Monomer Chemistry AS UkrSSR)

SUBMITTED: October 14, 1960

Table 2. Block polymerization of MVP with styrene in the presence of ABN. Legend: (1) Composition of initil mixture, molar fractions; (2) content of nitrogen in the copolymer, \mathcal{H}_{i} ; (3) composition of the copolymer, molar fractions; (4) yield of copolymer, \mathcal{H}_{i} ; (5) viscosity of a 0.4% solution in toluene; (6) MVP; (7) styrene

Card 5/6

OSTROVERKHOV, V.G.; VAKARCHUK, I.S.

Reactions of derivatives of symmetrical triazine. Part 1.
Reactions of cyanuric acid with c -oxides. Ukr. khim. zhur.
28 no.1:94-101 '62. (MIRA 16:8)

1. Institut khimii monomerov i polimerov AN UkrSSR.

VAKERELSKI, I.

New type of apparatus for manuring and its attachment to a horse-driven cultivator. p. 19. MASHINIZIRANO ZEMEDELIE. Vol. 7, no. 7, July 1957. Sofiia, Bulgaria

THE REPORT OF THE PROPERTY OF

SOURCE: East European Accessions List, (EEAL) Library of Congress, Vol. 6, No. 1, January 1957

VAKARELSKI, I.

Fitting, and working with, machines for fertilizing agricultural plants. p.15. (MASHINIZIRANO ZEMEDELIE, Vol. 8, no. 5, May 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessiona (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

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VAKARELSKI, KH.

Bibliography of Bulgarian ethnography for 1943 to 1952. p. 451 . EZVESTIIA NA ETNOGRAFSKIIA INSTITUT S MUZEI. Vol. 2, 1955. Sofiia, Bulgaria. Ethnography of the Bulgarians; bibliography. p. 458.

SOURCE: East European Accessions List, (REAL) Library of Congress, Vol. 6, No. 1, January 1957

FEITIEL FINE FIEL FEITER HOUSEN FEITE GEREN WEREN WEREN

VAKARELSKY, C.

Changes in the life and culture of villages during the building of socialism. In French. p.365. (Acta Ethnographica, Vol. 5, no. 3/4 1956, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858410008-6"

- SHALBAKINA, L. I.; VAKARENKO, S. S.; PENIN, A. I.; BEZRUK, V. S.
- USSR (600)
- Afforestation
- Leaders in steppe forestry speak. Les i step8 4 no. 10: 1952

9. Monthly List of Russian Accessions, Library of Congress, _____ January 1953, Unclassified.

VAKARIN, A.I.

Windlass

Arrestor in the controlling mechanism for "clearers" of the "WEF-2 machine. Torf. prom. 29 No. 8 1952.

Monthly List of Hussian Accessions, Liberary of Congress, October 1972, MICLASSIFIED

VAKARIN, Y	chines tha	t maintain artif	icial climate.	Zhilkomm. l	choz. 13 mo.2:2 (MTRA 16:3) es)

VAKARINA, Ye. F. Cand Med Sci -- (diss) ! Localization of antigen and antibodies in the organism of animals after the introduction of typhoid-fiver vaccine." Mos, 1957. 12 pp (Min of Health USSR. Central Inst for the Advanced Training of Physicians), 200 copies (KL, 44-57, 101)

-32-

TINZBURG-KALININA, S.I.; VAKARINA, Ye.F.; SURNINA, T.I.

Formation of postvaccinal immunity against dysentery. Zhur. mikrobiol., epid. i immun. 33 no.11:71-76 N ¹62.

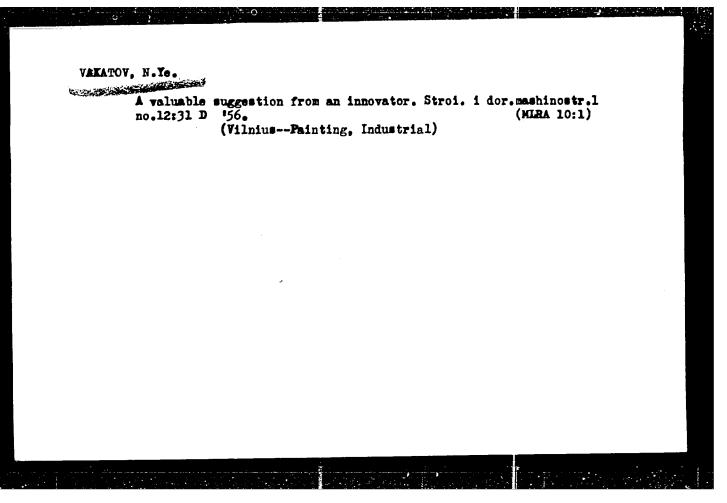
(MIRA 17:1)

1. Iz Moskovskogo instituta vaktsin i syvorotok imeni Mechnikova.

GINZBURG-KALININA, S.I.; TIMEN, Ya.Ye.; TENDETNIK, Yu.Ya.; PRYAMUKHINA, N.S.; VAKARINA, Ye.P.

-Formation of immunological reactions in experimental typhoid fever carrier state in rabbits. Zhur. mikrobiol., epid. i :mmun. 40 no. 8: 14-19 Ag '63.

1. Iz Moskovskogo instituta vaktsin i syvorotok imeni Mechnikova.



VAKATSIYENKO, I.Ye.

Mechanized backfilling of trenches containing sugar bests. Sakh. prom. 28 no.5:21-22 *54. (MLRA 7:9)

 Kirovogradskiy sakhsveklotrest, (Marthmoving machinery)

THE PROPERTY OF THE PROPERTY OF THE PARTY OF

KOZIOV, A.I.; VAKAYEVA, M.S.

Prospects for the development of furfurole production in the Leningrad Economic Region. Gidroliz.i lesokhim.pron. 12 no.3: 23-24 59. (MIRA 12:6)

<u>version pelojo libros establik i jedalinije gledij</u>

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno spirtovoy promyshlennosti.
(Leningrad economic region--Furaldehyde)

KOZIOV, A.I.; VAKAYEVA, M.S.; GORSHKOV, I.I.; BOBOVNIKOV, B.M.

Means of lowering the costs of furfurole produced by hydrolysis plants in operation. Gidroliz.i lesokhim.prom. 13 no.4:21-23 '60. (MIRA 13:7)

1. Mauchno-issledovatel'skiy institut gidroliznoy i sul'fitnospirtovoy promyshlennosti (for Kozlov, Vakayeva, Gorshkov). 2. Andizhanskiy gidroliznyy zavod (for Bohovnikov). (Furaldehyde) (Hydrolysis)

POUNTRY	USSR	F
BS. JOUE.	: PZhBiol., No. 3 1959, No. 10010	
AUTHCR	: Vake Akira	
inst. Title	Variability of Plague Pathogens (B. pentis EV) in the Bodies of White Mice	e
ORIG. PUB.	: Zh. mikrobiol., epidemiol. i immunobiol., 1957, No. 123-126	12,
ABSTRACT	An "S" form was isolated from an avia fient strain of plague EV bacterium and carefully checked for purity. Through subsequent passages through the bodies of mice a transition of the "S" form to an "R' form was achieved, and this was maintained for 8-9 successive subcultures on agar V. G. Petrovs	
Card:	1/1	1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858410008-6"

VAKEFLIIU, I.

Development of electric power and some major problems arising for workers in this sector, p. 1, TEKNIKA, (Ministria Industri-Miniera dhe Ndertim-Komunikacion) Tirane, Vol. 3, No. 2, Mar./Apr. 1956

SOURCE: East European Accessions List, (EFAL) Litrary of Congress, Vol. 5, No. 12, December 1995

VAKEFLLIU, I.

"Soviet experiences; experiences in the power-network system of Armenia."

p. 17 (Teknika) Vol. 4, no. 5, Sept./Oct. 1957 Tirane, Albania

SO: Monthly Index of East European Accessions (EFAI) LC. Vol. 7, nc. 4,

VAKEFILIU, I.

"Influence of the Enver Hydroelectric Plant on the network of our electric production."

p. 3 (Teknika) Vol. 4, no. 6, Nov./Dec. 1957 Tirane, Albania

30: Monthly Index of East European Accessions (EFAI) LC. Vol. 7, no. 4, April 1958

VAKENGUT, A. M.

Central Lab., BTsZh, Central Inst. Epidemiol., and Microbiol., (-1944-).

Central Tuberculosis Inst., (-1944-).

"Cultivation of BCG cultures on the glycocoll synthetic medium VKL,"

Zhur. Mikrobiol., Epidemiol., 1 Immunobiol., No. 6, 1944.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858410008-6"

VAKENGUT, P.P.

Preparing to salute the 22d Congress with suitable achievements.

Put' i put.khoz. 5 no.8:8-9 Ag '61. (MIRA 14:10)

l. Direktor shchebenochnogo savoda, stantsii Shershni, Yuzhno-Ural'skoy dorogi. (Railroads--Employees) (Socialist competition)

是一个人,我们就是一个人,我们不是一个人,我们就是一个人,我们就是这个人,我们不是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

VAKHABOV, A.A; SULTANOV, M.B.

Effect of vincanine hydroxypropylate (OPV) on arterial blood pressure and respiration. Farm. alk. no.1:127-132'62.

(MIRA 16:9)

(VINCANINE--PHYSIOLOGICAL EFFECT) (BLOOD PRESSURE)

(RESPIRATION)

VAKHABOV, A.A.; SULTANOV, M.B.

Effect of derivatives of vincanine on neuromuscular conduction. Farm.alk. no.1:13-137'62. (MIRA 16:9)

(VIICANINE—PHYSIOLOGICAL EFFECT)

(NEUROCHEMISTRY) (MUSCIE)

VAKHABOV, A.A.

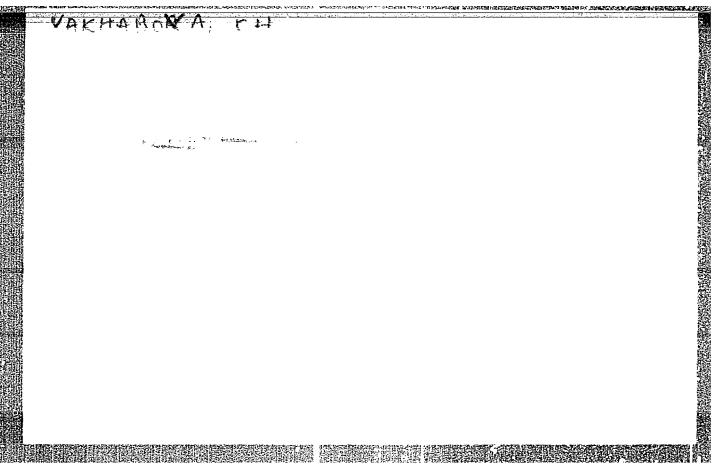
Pharmacology of hydroxybutylate of vincanine. Vop. biol.
i kraev. med. no.4:451-455 '63. (MIR. 17:2)

VAKHABUY, M. G.

Dissertation defended for the degree of Doctor of Historical Sciences at the Institute of the Peoples of Asia

"Formation of the Uzbek Socialist Nation."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145



NIYAZOV, A.N.; VAKHABOVA, Kh.

Aromatic hydrocarbons of the naphtalene series in Kum-Dag oil.
Izv.AN Turk. SSR no.3:73-79 '56. (MURA 9:12)

1. Otdel khimii Akademii nauk Turkmonskoy SSR.
(Hydrocarbons) (Kum Dag--Petroleum)

NIYAZOV, A.; VAKHABOVA, Kh.

Hydrocarbons of the naphthalene series of Cheleken petrolem.

Izv. AN Turk. SSR no.2:27-32 '58. (MIRA 11:4)

1.Institut khimii AN Turkmenskoy SSR.

(Oheleken District--Petroleum--Analysis)

SOV/65-58-9-3/16

AUTHORS:

Niyazov, A. M; Vakhabova, Kh; Shishkina, M. V.

TITLE:)

Condensation of Aromatic Hydrocarbons with a Light Oily Fraction of Cheleken Petroleum. (Kondensirovannyye aromaticheskiye uglevodorody legkoy maslyanoy fraktsii

Chelekenskoy nefti)

PERIODICAL:

ABSTRACT:

Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr 9, pp 13 - 18, (USSR)

P

The possibility of using the picrate method for separating the condensed aromatic hydrocarbons from the light oily fraction (300 - 370°C; of Cheleken petroleum was investigated, as well as the utilization of the obtained analysis data and ultra violet absorption spectra. A number of tricyclic and tri-substituted dicyclic aromatic hydrocarbons were separated. The method described by T. Cosciug (Ref.8) and improved by S. S. Nametkin et al. (Ref. 9 and 10) was used. 6.8 kg of the oil, separated from the crude petroleum of two oil wells (67 and 60) from the Cheleken region, was used as raw material; its boiling point was within the limits of 300 - 370°C. The oil was distilled into ten-grade fractions and each narrow fraction was treated with picric acid. The separated picrate was dried on a filter paper, recrystallized several times from ethyl alcohol and weighed.

Card 1/3

8 3.

307/65-58-9-3/16

Condensation of Aromatic Hydrocarbons with a Light Oily Fraction of Cheleken Petroleum.

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Results of this process are given in Table 1. The picrates were then decomposed with a 3% alkali solution and the separated oil extracted with ethyl ether. After separation of the ether the oil was distilled two to three times over metallic sodium and narrow fractions taken off. The physico-chemical constants of the separated aromatic hydrocarbons were then defined. The ultraviolet absorption spectra (2,900 - 3,800 Ao) of some fractions were investigated in a quartz spectrograph and recorded on a microphotometer; microphotograms of these fractions are shown in Figs. 1 and 2. The physicochemical constants of the fractions are tabulated (Table 2). Fig. 3: microphotogram of the absorption spectrum of the anthracene. During the recrystallization of picrates of higher fractions a gum-forming mass separated. It is possible that this is due to the partial oxidation or decomposition of the picrates. It is known that anthracene and its derivatives are comparatively easily oxidised and that anthraquinone and other substances are formed. The authors concluded that the piccate method is suitable for separating tricyclic condensed

Card 2/3

SOV/65-58-9-3/16

Condensation of Aromatic Hydrocarbons with a Light Oily Fraction of Cheleken Petroleum.

aromatic hydrocarbons from the light oily fractions of petroleum. The presence of phenanthrene and its honologues and also of tri-substituted naphthalenes was confirmed. The ultra-violet spectra were used for establishing the presence of anthracene and its homologues in some of the fractions. There are 3 Figures, 2 Tables and 14 deferences: 3 English, 10 Soviet and 1 German.

ASSOCIATION: Institut Khimii Turkmenskoy SSR (Institute of Chemistry of the Turkmen SSR)

- 1. Petroleum--Fractionation 2. Hydrocarbons--Separation
- 3. Picric acid--Performance 4. Spectrographic analysis

. Card 3/3

S/165/60/000/002/002/008 A104/A129

NAME OF THE PARTY OF THE PARTY

AUTHORS:

Niyazov, A.N., and Vakhabova, Kh.

TITLE:

The problem of the chemical composition of higher fractions

of the Cheleken petroleum

PERIODICAL:

Akademiya nauk Turkmenskoy SSR. Izvestiya. Seriya fiziko-

tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no.2,

1960, 29-35

TEXT: This article, compiled in cooperation with the Senior Scientific Worker Ye.S.Pokrovskaya and the Candidate of Chemistry M.V.Shishkina, is a continuation of previous papers on properties of the Cheleken petroleum (Refs. 5 and 6, Niyazov, A.N., Izvestiya AN TRRS, 1958, no. 2. and Khimiya i tekhnologiya topliv i masel, 1958, no.9). Specifically, the hydrocarbon composition of the 370-400° fraction was examined. The primary oil of $d_{\rm M}^{\prime\prime}=0.9002$, $n_{\rm M}^{\prime\prime}=1.4987$ and an aromatic content of 25% in 730 g was subjected to a chromatographic fractionation with ACM (ASM) silica gel. The obtained naphthene-paraffin portion of 511 g was analyzed separately, whereas the aromatic concentrate was separated into the compounds A_1 , A_2 ,

Card 1/8

The problem of the chemical composition ... 5/165/60/000/002/002/008

Az, A4, and A5 with the help of ASM silica gel. These compounds belong to monocyclic, bicyclic and tricyclic groups: compound A5 underwent additional fractionation with aluminum oxide. All aromatic hydrocarbons were vacuum-fractionated and their characteristics were determined according to: cyclic composition, basic analysis and absorption spectra in the nearest ultraviolet zone. The latter two tests were carried out in the institut nefti Akademii nauk SSSR (Petroleum Institute of the Academy of Sciences of USSR). Fraction A4 consists of di-substituted and tri-substituted benzene homologues. Molecules of these hydrocarbons have one aromatic and one naphthene ring; high values of n 20 are due to the latter. These hydrocarbons form no picrates. The microphotogram of the fraction absorption spectrum with n 20 = 1.5118 shown in Fig. 1 is typical for the benzene group. The rresence of aromatic and naphthene rings with paraffin chains was established in the A2 fraction. Fig. 2 shows a microphotogram of the fraction absorption spectrum with n 20 = 1.5345 (a) and 1.5735 (b). A low absorption coefficient in the region of 3.100-3 A indicates a low content of naphthene hydrocarbons (5-10%). This and n 20 = 1.5359 fraction contain bi-substituted and tri-substituted naphthalenes. Group A3 has three rings, two of

Card 2/8

s/165/60/000/002/002/008 A104/A129

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The problem of the chemical composition ...

them aromatic. Fraction A4 is a mixture of bicyclic and tricyclic hydrocarbons. The microphotogram (Fig. 3) of the absorption spectrum of fractions with $n_{D}^{30} = 1.6095$ reveals the presence of naphthelene and phenathrene hydrocarbons. These aromatic hydrocarbons form with picric acid brown picrates with a melting point of 107-109°C and proved easily decomposable during recrystallization. The content of C and H in A4 reaches 98.8%, the rest are the non-hydrocarbon components S, O or N. Increased density and refraction index reduce the molecular weight of aromatic hydrocarbons and their content of hydrogen. Decreasing molecular weight is linked with the condensation of cycles and the decrease of paraffin chains. After distillation of the solvent, 0,3 g of yellow crystalls was separated from the aromatic concentrate A5 with $n_p^{20} = 1,64 - 1,66$. After recrystallization with alcohol-benzene these crystalls have a melting point of 223.5 - 224.5°C, are soluble and highly fluorescent in benzene. Alcohol and petroleum ether are not suited as solvents. The remaining oil was diluted with petroleum ether, cooled to -10°C which produced further 0.17 g of crystals with melting points of 215-217°C. The basic composition of the substance with melting points of 223.5-224.5°C is as follows: C 92.92%; 92.87%; H 7, 17%; 7.21%; C₁₇ H₁₆

Card 3/8

The problem of the chemical composition ...

S/165/60/000/002/002/008 A104/A129

(determined values) and C 92.72%; H 7, 28% (estimated values). The spectrum of this substance was taken in benzene solution and showed absorptions of 3,640, 3,550, 3,460, 3,415 Å which are unusual in naphthelene, phenathrene and anthracene hydrocarbons. The inspected substance is presumed to be a chrysene homologue. The crystalline substance with melting points of 215-217°C showed an analogous absorption spectrum. The remaining oil was subjected to fractionation, i.e. adsorption fractionation of heavy aromatic concentrate of $n_B^{20} = 1.6526$ (11 g) with aluminum oxide (3). The naphthene paraffin portion has d = 0.8693 and n = 1.4772; cooled down to -39 - ...40°C it resembles glass, forms no complex with carbamide but with acetone, benzene and toluene it produces a weak suspension. It is assumed that this portion of the Cheleken petroleum consists almost entirely of naphthene hydrocarbons. Fig. 4 shows the infrared absorption spectrum of the naphtheneparaffin part of the 370-400° fraction (a) and of the vaselin oil (b). The spectrum was taken by an NKC-14 (IKS-14) spectrophotometer with a NaCl prism in a 0.116 mm layer. It shows that high quality vaseline oil can be obtained from appropriate fractions of non-paraffinic Cheleken petroleum. Tests proved that aromatic hydrocarbons of the 370-400° fraction of Cheleken petroleum

Card 4/8

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858410008-6"

The problem of the chemical composition ...

S/165/60/000/002/002/008 A104/A129

consist of 1-4 condensed nuclear rings and molecules containing naphthene rings and paraffin chains. Distillate 370-400° consists mainly of naphthene hydrocarbons and is a suitable raw material for the production of lubricants with low congealing properties requiring no preliminary deparaffination or depressor. After separation of aromatic hydrocarbons, higher fractions can be used as raw material for vaseline oil. There are 3 tables, 4 figures and 10 references: 7 Soviet-bloc, and 3 non-Soviet-bloc.

ASSOCIATION: Institut khimii AN Turkmenskoy SSR (Institute of Chemistry

of the Turkmenskaya SSR)

SUBMITTED: November 2, 1959

Card 5/8

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858410008-6"

VAKHABOVA, Kh.; MUSAYEV, I.A.; NIYASOV, A.M.

Gas-liquid chromatography of normal maraffin hydrocarbons in Cheleken petroleum. Izv. AN Turk. SiR.Ser. fiz.-tekh., khim. i geol.nauk no.6:23-30 '63. (MIRA 18:1)

1. Institut khimii AN Turkmenskoy SSR.

VAKHABOVA, Kh.; MUSAYEV, I.A.; NIYAZOV, A.M.

Use of the method of gas-liquid chromatography in analyzing bicyclic aromatic hydrocarbons in Cheleken petroleum. Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.6:28-35 *164. (MIRA 18:4)

1. Institut khimii AN Turkmenskoy SSR.

VAKHABOVA, Kh., MC 1911 V. 1.4.: Niverce, a.M.

Regular permittin tydrocarbons in the petroleum of total dega.

1zv. AN Turk. SSE. Ser. 112.- 5ekh. Phim. 1 cool. Am. au.3:
99-102 *65. (MIRA 28.12)

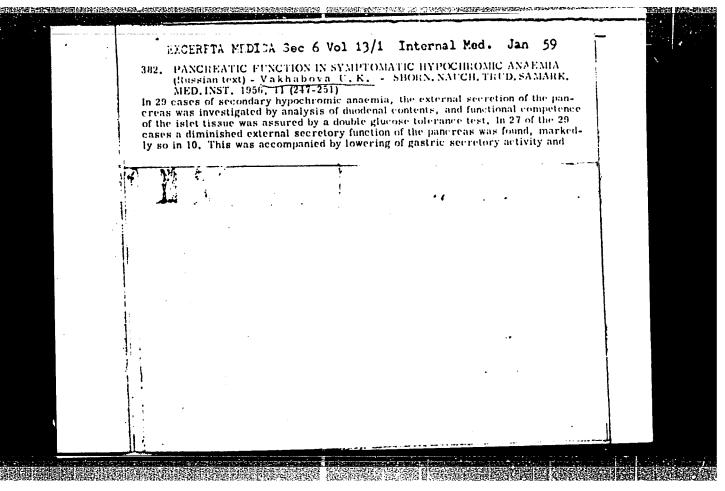
等的种种。我们就是自己的,我们就是不是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的人,这一个人的人,这一个人的人,这一个人的人,我们就是一个人的

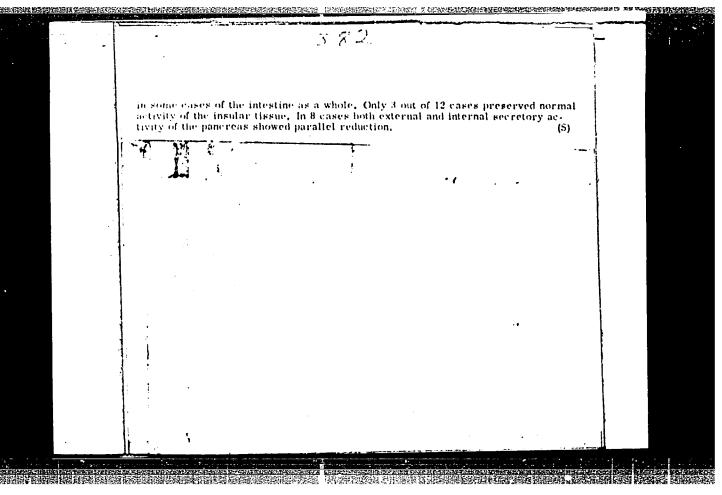
1. Institut khimii 3% Turknenskoy SSh. Submitted Pob. 23, 1965.

WELLER DEPOSITE SANGERS STATEMENT OF THE SANGE STATEMENT OF THE SANG

VAKHABOVA, U. K., Cand of Med Sci -- (diss) "Functional state of the pancreas during certain diseases of the blood system (leukemia)."

Samatkand, 1956, ll pp (Samarkand State Medical Institute im Acad I. P. Pavlov), 100 copies (KL, 37-57, 104)





KUL'MATOV, M.K., prof.; VAKHABOVA, U.K., kand.med.nauk; PASHENIN, P.M., assistent

Diagnostic significance of determining C-reactive protein in patients with myocardial infarct. Med. zhur. Uzb. no.3:70-72 Mr '61. (MIRA 14:5)

1. Iz kafedry propedevtiki vnutrennikh bolezney Samarkandskogo gosudarstvennogo meditsinskogo instituta imeni I.P.Pavlova i kafedry mikrobiologii Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.

(HEART_INFARCTION) (PROTEINS)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858410008-6"

KUL'MATOV, M.K., prof.; VAKHABOVA, U.K., kand.med.nauk

Significance of C-reactive protein in the differential diagnosis

inferct. Med. zhur. Uzv. no.5:57-

Significance of C-reactive protein in the differential constraints of stenocardia and myocardial infarct. Med. zhur. Uzv. no.5:57-0f stenocardia and myocardial infarct. (MIRA 14:6) 58 My '61.

1. Iz kafedry propedevtiki vnutrennikh bolezney Samarkandskogo gosudarstvennogo meditsinskogo instituta.

(PROTEINS) (HEART_DISEASES)

的一个人,我们也是一个人,我们也是一个人,我们就是一个人,我们也不是一个人,我们也不是一个人,我们也不是一个人,我们也没有一个人,我们也是一个人,我们也是一个人, 第14章 是一个人,我们也是一个人,我们也是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人

KUL'MATOV, M.K., prof.; VAKHABOVA, U.K., dotsent; ARIPOV, S.A., dotsent

Importance of C-reactive protein in estimating the activity of a tuberculous process. Med. zhur. Uzb. no.6:37-39 Je '61.

(MIRA 15:1)

1. Iz kafedry propedevtiki vnutrennikh bolezney Samarkandskogo gosudarstvennogo meditsinskogo instituta imeni I.P.Pavlova i Samarkandskoy oblastnoy tuberkuleznoy bol'nitsy.

(PROTEINS) (TUBERCULOSIS)

A COMMENTAL LANGUAGE AND PROGRAMMENT AND PROGRAMMENT OF THE PROGRAMMEN

KUL'MATOV, M.K., prof.; VAKHABOVA, U.K., dotsent; PASHININ, P.M., assistent

Role of C-reactive proteins in the evaluation of tuberculous processes. Sow.med. 25 no.1:104-107 Ja 161. (MIRA 14:3)

1. Iz kafedry propedevtiki vnutrennikh bolezney Samarkandskogo meditsinskogo instituta imeni akad. I.P.Pavlov i kafedry mikrobiologii Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(TUBERCULOSIS)

(BLOOD PROTEINS)

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KUL'MATOV, M.K., prof.; VAKHABOVA, U.K., Botant, ARIPOV, S.A., assistent

Importance of C-reactive protein in the diagnosis of malignant tumors. Nauch. trudy SamMI 23:5-6 *63 (MIRA 17:3)

1. Kafedra propedevtiki vnutrennikh bolezney Samarkandskogo meditsinskogo instituta i Samarkandskiy onkologicheskiy dispanser.

where a,b and f are given on [.

THE STREET WHEN THE PROPERTY OF THE PROPERTY O Managary San Post Treasure Vakhaviya, N.A. 20-6-2/42 VAKHANIYA, N.H. AUTHOR: On a Boundary Value Problem With Boundary Conditions on the Whole Boundary for a Hyperbolic System Which is Equivalent to TITLE: the Oscillation Equation of a Chord (Ob odnoy krayevoy zadache s zadaniyem na vsey granitse dlya giperbolicheskoy sistemy, ekvivalentnoy uravneniyu kolebaniya struny). Doklady Akad. Nauk, SSSR, 1957, Vol. 116, Nr6, pp. 906-909 (USSR) PERIODICAL: In the rectangle R : $0 \leqslant x \leqslant X$, $0 \leqslant t \leqslant T$ with the boundary Γ ABSTRACT: and the ratio of the lateral lengths T: X = 9 the solution of the system au₄ = 3t is sought, if it is au1 - bu2 - f (2)

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 $\begin{bmatrix} -b^2 \neq 0 \text{ on } \Gamma, u_1(x,t) \text{ and } u_2(x,t) \end{bmatrix}$

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The method elaborated by Sobolev [Ref.1] for the case g = 1is extended by the author to the case of rational ? . Then

the case of irrational, $a^2 - b^2 \neq 0$ on Γ , $u_1(x,t)$ and $v_2(x,t)$

On a Boundary Value Problem With Boundary Conditions on the Whole Boundary for a Hyperbolic System Which is Equivalent to the Oscil-20-6-2/42 lation Equation of a Chord

be a continuous solution of (1). If $f \equiv 0$ on Γ and $u_2(x,t)$ vanishes in a point M of Γ , then is $u_1(x,t) \equiv 0$ and $u_2(x,t) \equiv 0$

Theorem: Let 9 satisfy the inequality $\left| 9 - \frac{m}{n} \right| > \frac{\Lambda}{K+1}$

A is a fixed positive constant, K a fixed integer, let $a^2 - b^2 = 1$ on Γ . On each side of R it is assumed $f \in C^{K+4}$, $\ln |a+b| \in c^{2K+6}$, whereby in the four joints of R these functions and their even derivatives are assumed to be continuous

up to the $2\left[\frac{K+4}{2}\right]$ -th and (2K+6)-th order respectively. Then there exists a two-times continuously differentiable solution of (1) - (2). There are 4 references, 2 of which are Slavic.

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PRESENTED: By S.L. Sobolev, Academician, May 7, 1957 SUBMITTED: May 6, 1957

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VAYHANIYA, N.H., Cand Physaliath Soi- (dies) "On cortain bundary rubless for the equation of the vibration of a string in a rectargular
field." Thilisi, Publishing House of the Acad Sci. Georgien SSR,
1958. 6 pp (Mos State U in M.V.Lomonosov. Physaliath Faculty), 150 ccpies. Bibliography at and of text (10 titles) (ML,44-53, 119)

VAKHANIYA, N.N. The Dirichlet problem for the vibrating string equation. Soob. AN Gruz.SSR 21 no.2:131-138 Ag'58. (HIRA 12:6)

AN Gruz.SSR 21 no.2:131-138 Ag'58.

1. AN GruzSSR Vychislitel nyy tsentr, Toilisi. Predstavleno akademikom N.I. Munkhelishvili. (Vibration)

\$/774/60/001/000/001/012

AUTHOR: Vakhaniya, N. N.

TITLE: On an approximate solution of the Dirichlet problem for the equation of

a chord.

SOURCE: Akademiya nauk Gruzinskoy SSR. Vychislitel'nyy tsentr. Trudy. v.l.

1960, 41-49.

TEXT: The paper examines the Dirichlet problem for the equation of a chord posed in a form that is at variance with that of the classical problems of mathematical physics. As posed (F. John, Am. J. of Math., v. 63, 1941, 141), the character of the problem depends on the shape of the closed region R for which the problem is to be solved. The problem as formulated is examined here only for that case in which the region R is a rectangle, $0 \le x \le L_1$, $0 \le y \le L_2$. In this instance, the character of the problem examined depends on certain arithmetical properties of the ratio $0 \le L_1/L_2$. For rational values of 0, the corresponding homogeneous problem admits an unnumbered multiplicity of (continuous) untrivial solutions, whereas the nonhomogeneous problem, generally speaking, is not solvable. By contrast, for irrational values of 0, the homogeneous problem does not admit any (continuous) non-rational values of 0, the homogeneous problem becomes solvable in the class trivial solutions, whereas the nonhomogeneous problem becomes solvable in the class

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On an approximate solution

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of continuous differentiability $C^{(1, \epsilon)}$ for almost all values of ρ in the sense of the Lebegue measure. The present note shows that the above-indicated difference between rational and irrational p, in a certain sense, can be regarded as "quantitative"; for rational numbers that are "close to" irrationals, that is, for p = m/n with sufficiently large values of the irreduceable integers m and n, the picture - in a certain sense - is similar to that which occurs with irrational values of p. In particular, in either case, the approximate solution of the problem produces an exact solution for the fundamental equation that satisfies the specified boundary conditions only approximately. Here the error for a given boundary function f in the case of p=m/n depends on the value of the sum m+n and is sufficiently small for a sufficiently large value of this sum. In the case of an irrational ρ , the error can be made smaller than any prescribed number &>0. Furthermore, under fairly broad assumptions, an affirmative answer is given to the following natural question: If it is assumed that for a given irrational p and a given boundary function f the problem does in fact admit a solution, is it not possible to obtain this (unique) solution as a commensurate limit of the approximate solutions constructed for rational values mi/n that approximate the given irrational number p? There are 9 references (4 Russianlanguage Soviet, 5 English-language, of which 1 in Russian translation).

SUBMITTED: 28 November 1958.

Card 2/2

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AUTHOR: Vakhaniya. N. N.

TITLE: Concerning one singular problem for an equation of the mixed type

CITED SOURCE: Tr. Vychisl. tsentra. AN Gruzssk. v. 3, 1962(1963), 69-80

TOPIC TAGS: partial differential equation, existence theorem, will process toward.